Name of work : Construction of Dining hall in Nagasandra School in ward no-39

B R NO: 662 Date:31-10-2014

Estimate Cost: Rs.19.99 Lakhs

Bill Amount : Rs.12.26 Lakhs

Date of Inspection : 12-10-14

Observation and Conclusion

The above said Work-Construction of Dining hall in Nagasandra School in Ward-39 has been shown by the Concerned AE.

The above said Work has been inspected along with the Concerned AE.

The Measurements are checked by me and It is found Satisfactory.

The Dining hall building Work done is Satisfactory.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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G.M.MUNIYAPPA,
B.E.(ELECTR.E (CIVIL
EXECUTIVE ENGINEER(RTD)
PUBLIC WORKS DEPARTMENT

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Name of work : Construction of Dining hall in Nagasandra School in ward no-39

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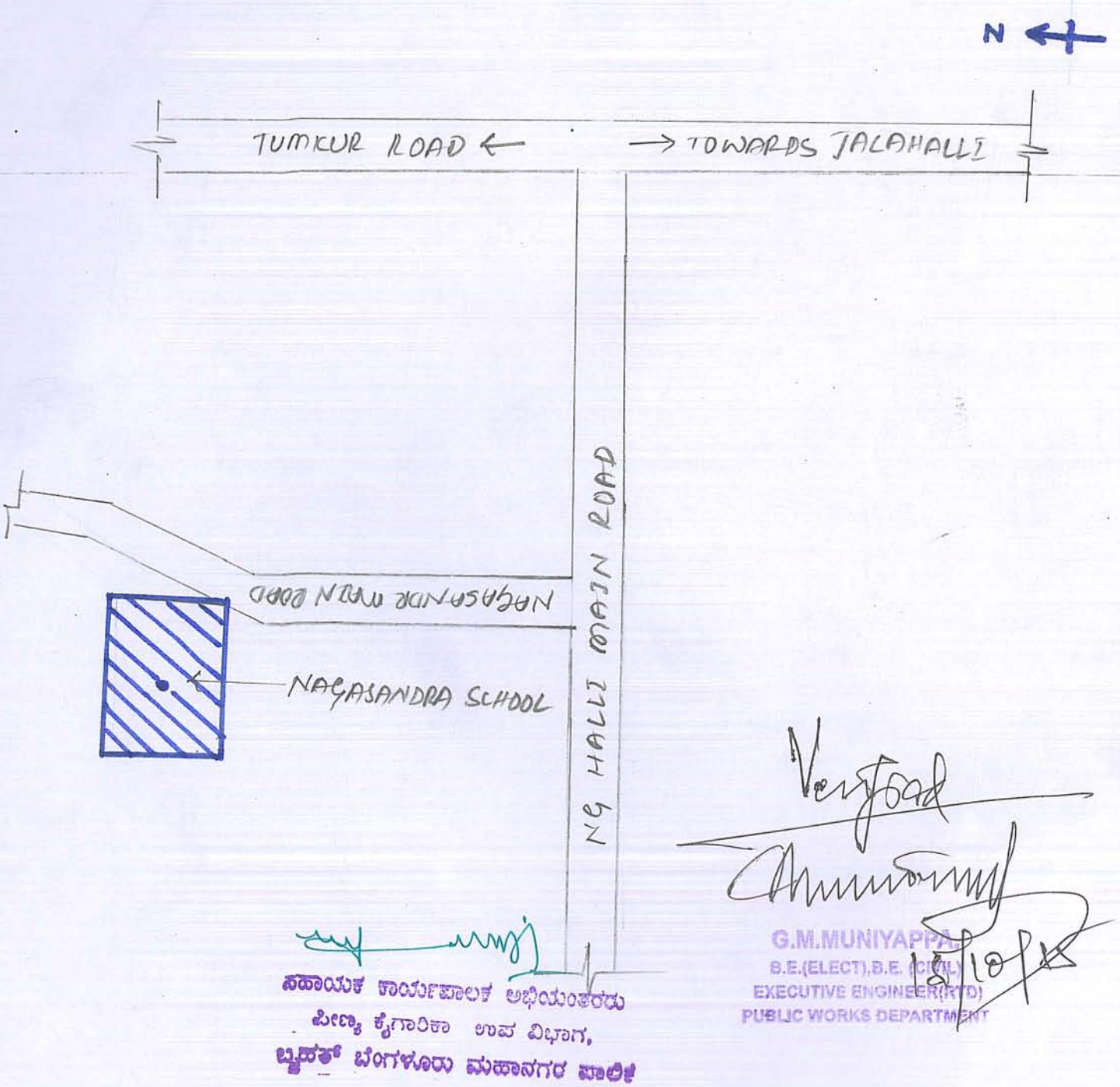

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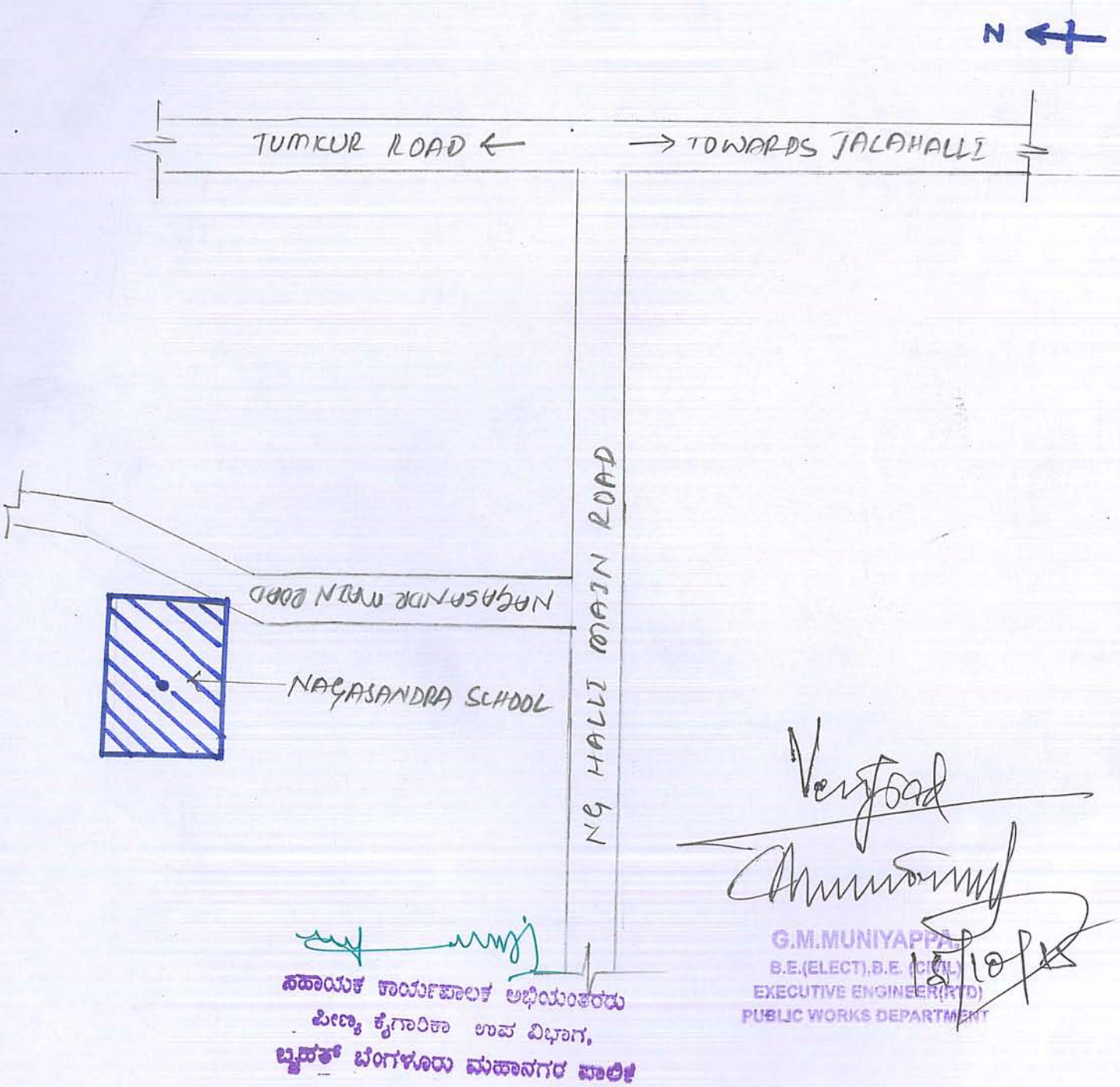

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KARNATAKA TEST HOUSE PVT. LTD.

No.778/44, 8th Cross, Triveni Road, Gokul 1st Stage, 2nd Phase, Bangalore – 560 054.
Tele Fax : 23378383 / 23375326.
E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/818-1295/2014-2015 **Date: 17.07.2014**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : - Construction of first floor building on existing Anganavadi ground floor building near Govt. School at Chokkasandra in ward No.39.

Name of the Contractor* : Mr. A.G Prabhakar, Bangalore.

Sample Received on : 16.07.2014.

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	RCC Slab Concrete	M_{20}	16.06.2014	16.07.2014	Above 28 days	22500	8.120	560	24.89
2.		"	"	"	"	"	8.180	580	25.78
		"	"	"	"	"	8.160	567	25.20

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

AR W39

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KARNATAKA TEST HOUSE PVT. LTD. BANGALORE

for KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C.)
TECHNICAL MANAGER

KARNATAKA TEST HOUSE PVT.LTD. NABL Accredited Laboratory

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Report No. : KTH/ST/0818-1296a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Nature of Sample* : Reinforcement steel – 8mm, 10mm, 12mm & 16mm

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST :

Dia (mm)	8	10	12	16	Limits as per IS : 1786-2008, Gr. Fe 500
Weight / unit length (kg/m)	0.379	0.575	0.861	1.593	8mm – 0.367 Min 10mm – 0.574 Min 12mm – 0.844 Min 16mm – 1.501 Min
Yield Stress (N/mm2)	517.52	535.03	548.48	517.52	500 Min
Tensile Strength (N/mm2)	617.04	624.20	619.25	617.04	10% More than actual 0.2% proof stress but not less than 545 N/mm2
% Elongation (on 5.65 □AG.L)	20.0	22.0	21.6	20.0	12.0 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	4 dia	*No cracks observed. Passes the test.*
2.	*10*	*4 dia*	*No cracks observed. Passes the test.*
3.	*12*	*4 dia*	*No cracks observed. Passes the test.*
4.	*16*	4 dia	*No cracks observed. Passes the test*

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	*No cracks observed. Passes the test.*
2.	*10*	*5 dia*	*No cracks observed. Passes the test.*
3.	*12*	*7 dia*	*No cracks observed. Passes the test.*
4.	*16*	7 dia	*No cracks observed. Passes the test*

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AEW 39

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(SREENIVASA.C.)
TECHNICAL MANAGER

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Report No. : KTH/CEMENT/0818-1294a/2014-2015 **Date: 23.07.2014**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Bharthi 53 Grade.

Sample Received on : 16.07.2014.

Period of Test : 16.07.2014 to 23.07.2014.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	27.5 %	Not specified	-
2	Initial setting time	183 minutes	Shall not be less than 30 minutes	P
3	Final setting time	275 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.32 MPa 38.28 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	291.1 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.02 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

A E W 39

23/7/14 AE W-39

ಸಂಬಂಧಪಟ್ಟ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ ಉಪ ವಿಭಾಗ,

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Report No. : KTH/C.AGG/0818-1293a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON AGGREGATE
(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100.0	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	95.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	90.2	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	68.7	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	38.9	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	8.7	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.1	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Materials finer than 75 microns (%) (Deleterious Material)	1.6	Shall not be more than 3.0 %.
2.	Fineness Modulus	2.60	Min - 2.0 Max – 3.5

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

AE W39

AE W39

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Report No. : KTH/C.AGG/0818-1292a/2014-2015 **Date: 21.07.2014**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Peenya Industrial Area Sub Division,
BBMP, Bangalore.

Name of the Project* : Construction of Dining hall in Nagasandra school in ward No.39 Chokkasandra.

Name of Contractor* : Mr. A.G Prabhakar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 16.07.2014.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample doesn't confirms to IS: Stipulation of 20mm size Aggregate
2	20	82.74	85 to 100	95 to 100	
3	16	39.44	-	-	
4	10	9.76	0 to 20	25 to 55	
5	4.75	0.52	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	8.92	Not specified
2	Elongation Index (%)	20	13.36	Not specified
3	Crushing Value (%)	20	21.3	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

AE W39
21/7/14
AE W39
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AE W-35

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AE W-59

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

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COMMUNITY HALL
EXECUTIVE ENGINEER(CIVIL)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

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EXECUTIVE ENGINEER(RTD)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

B R NO: 662 Date:31-10-2014

Estimate Cost: Rs.19.99 Lakhs

Bill Amount : Rs.12.26 Lakhs

Date of Inspection : 12-10-14

Observation and Conclusion

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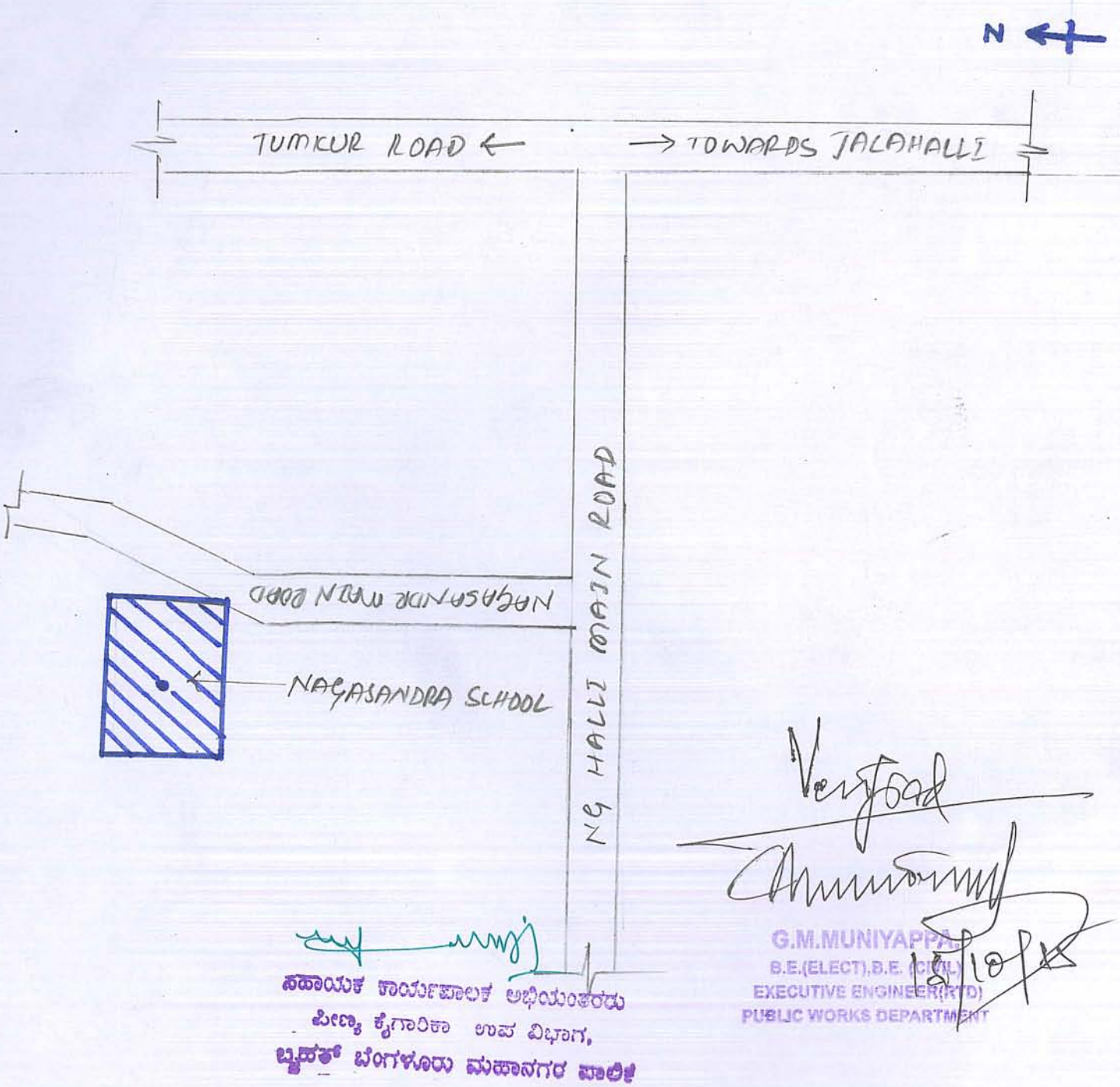
B R NO: 662 Date:31-10-2014 Estimate Cost: Rs.19.99 Lakhs



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EXECUTIVE ENGINEER(CIVIL)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

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Photo

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G.M.MUNIYAPPA
B.E.(ELECT),G.E. (CIVIL)
EXECUTIVE ENGINEER(RTD)
PUBLIC WORKS DEPARTMENT

Name of work : Construction of Dining hall in Nagasandra School in ward no-39

Photo

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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